



Majid Zare

M.Sc Student at Amirkabir University of Technology (Tehran Polytechnic)



31 October 1992



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Education

- 2015-present M.Sc. in Water Resources Management GPA: 3.65/4 (To date)
Amirkabir University of Technology (Tehran Polytechnic)
- 2011-2015 B.Sc. in Civil and Environmental Engineering GPA: 2.61/4
Amirkabir University of Technology (Tehran Polytechnic)
- 2014-present GPA for the last 65 units of study (29 courses): GPA: 3.08/4
(two years of M. Sc and last year of B. Sc education)
- 2007-2011 Highschool Diploma GPA: 4/4
Shahid Sadoughi Highschool (NODET)

Thesis Status

- Thesis Title Coordinated operation and dam removal effects on meeting consumptive and environmental demands of natural ecosystems
(Case study: Urmia Lake basin) In progress
- Seminar Title An International Review of Dam Removal Experiments, Incentives and Consequences Score: 20/20

Publications

- 2017 M. Zare; M. Ahmadi; "Multi-decadal Variability of Parameters Influence on Hydrological Fluxes under Climate Change" (Submitted)
Ecological Modelling
- 2017-present S. Ghanbari; M. Zare; M. Ahmadi; "Suspended sediment load prediction using combinations of hydrologic and hydraulic indicators" (preliminary title). (Under preparation)
(To be submitted for publication at Journal)

Language Scores

- TOEFL Reading: 27; Listening: 25; Speaking: 20; Writing: 30 9/9/2017
Total: 102
- GRE Verbal Reasoning: TBA; Quantitative Reasoning: TBA; Analytical Writing: TBA; 11/30/2017
(To Be Taken)

Teaching Assistantship

- Fall 2017 Technical English
Lecturer: Dr. Saeed Torkzaban
- Fall 2016 Advanced Groundwater
Fall 2017 *Lecturer: Dr. Saeed Torkzaban*
- Fall 2016 Technical English
Spring 2017 *Lecturer: Dr. Mehdi Ahmadi*

Research Assistantship

- 2017-present Simulation of economical scenarios for Urmia Lake restoration (under supervision of Urmia Lake Restoration National Committee, Sharif University of Technology)
Supervisor: Dr. Hossein Pourzahedi
- 2015-present Standardization of Showerheads based on hydraulic and convenience specifications
Supervisor: Dr. Babak Khorsandi

Computer Skills

Water Resources Management	HEC-HMS, EPANET, Stormcad, SWAT, ArcSWAT, SWAT-CUP, LINGO, SewerCAD, Weka, Arc-GIS, SUTRA, MODFLOW, MODSIM, QUAL2E, QUAL2K
Civil Engineering	Autodesk Land, ETABS, SAP2000, SAFE, AutoCAD, Aimsun, Expert Choice
General Utilities	LaTeX, Microsoft Word, Microsoft Excel, Microsoft Powerpoint
Programming	MATLAB, Python, Fortran

Certifications

2017	International Certification for EAP (English for Academic Purposes) Workshop (32 hours) <i>K.N.Toosi University of Technology;</i>
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Honors and Awards

2015	Ranked within top 2.0% in the Nationwide Civil Engineering M.Sc Examination (among more than 25,000 contestants).
2011	Ranked within top 1.0% in the Nationwide Mathematics and Physics University Entrance Examination (among more than 350,000 contestants).
2007	Admitted to the NODET High school (National Organization for Development of Exceptional Talents).

Work Experiences

2015	Mellat Bank Construction Company (Chitgar Project)	3 months
	<i>Civil Engineering Training course</i>	
2017-present	Institute of Transportation Studies & Research (ITSR) under supervision of Urmia Lake Restoration National Committee (ULRNC)	
	<i>Researcher and project consultant</i>	
2014-present	Self-employed	
	<i>Over 30 translation projects (General, academic and expert English)</i>	

Interests

Research	Climate Change, Hydrological processes, Groundwater Modelling, Agricultural Studies, Runoff Simulations, Water Quality Modelling, Programming, Field Research, Laboratory Research, Teamwork
Other	Photography, Writing research articles/stories/critiques, Public relations, Philanthropic activities

Selected Courses

B.Sc.	Water & Wastewater Engineering & Project <i>Instructor: Dr. Sara Nazif</i>	15.75/20
	Engineering Hydrology + Project <i>Instructor: Dr. S. Jamshid Mousavi</i>	16/20
	Numerical Analysis <i>Instructor: Dr. Kourosch Shahverdiani</i>	17.75/20
	Technical English <i>Instructor: Dr. Taghi Ebadi</i>	16.5/20
	English for the Students of Engineering <i>Instructor: Dr. Mohammad Reza Eslami Khouzani</i>	17/20
M.Sc.	Operation Research <i>Instructor: Dr. Amir Golroo</i>	17.4/20
	Hydrological Models <i>Instructor: Dr. Mehdi Ahmadi</i>	17.5/20
	RS & GIS Application in Civil Engineering & Lab <i>Instructor: Dr. Mehdi Ahmadi</i>	19.7/20
	Water Quality Control <i>Instructor: Dr. Mehdi Ahmadi</i>	18.5/20
	Advanced Engineering Hydrology <i>Instructor: Dr. S. Jamshid Mousavi</i>	15.75/20
	Water Resources & Management Systems Analysis (I) <i>Instructor: Dr. S. Jamshid Mousavi</i>	16.5/20
	Advanced Groundwater <i>Instructor: Dr. Hamed Ketabchi</i>	16.2/20

Course Projects

B.Sc.	Water & Wastewater Engineering & Project: Real-time simulation of sewer design, storm design and water distribution systems in Meybod city (Yazd, Iran) <i>Utilities: EPANET, SewerCAD, StormCAD</i>	
	Engineering Hydrology: Simulation and manual calibration of Gilan Basin using semi-distributed models <i>Model: HEC-HMS</i>	
	Road Engineering Project <i>Utilities: AutoCAD, Autodesk Land</i>	
	Steel Structures Project <i>Utilities: AutoCAD, ETABS2015, SAFE2015</i>	
	Concrete Structures Project <i>Utilities: AutoCAD, ETABS2015</i>	
M.Sc.	Estimation & Cost & Project (Case Study: Energy Engineering and Physics Department, Amirkabir University of Technology) <i>Utility: Microsoft Excel</i>	
	Operation Research project: Minimizing the payback period of dam construction project using branch-and-bound algorithm (Case Study: Cheragh Veys Dam, Urmia Basin) <i>Utilities: LINGO, MATLAB</i>	
	Hydrological Models project: Multi-decadal Variability of Parameters Influence on Hydrological Fluxes under Climate (Case Study: Eagle Creek Watershed) <i>Utilities: MATLAB, SWAT</i>	
	RS & GIS Application in Civil Engineering & Lab project: Contingency phase mapping for disaster management (earthquake) (Case Study: Tehran Metropolis) <i>Utility: ArcGIS</i>	

Water Quality Control project: Multi-objective minimization of river oxygen loss and the cost of industrial waste release using genetic algorithm

Utilities: MATLAB, Microsoft Excel

Advanced Hydrology: Simulation and automatic calibration of Gilan Basin using semi-distributed models

Model: HEC-HMS

Advanced Groundwater: Project

Utilities: SUTRA, MODFLOW

Referees

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